



IFW

S/N 10/676,372

PATENTIN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Alexander Alexandrovich Maltsev et al. Examiner: Unknown
Serial No.: 10/676,372 Group Art Unit: 2681
Filed: September 30, 2003 Docket: 884.A52US1
Title: SYSTEMS AND METHODS FOR HIGH-THROUGHPUT WIDEBAND
WIRELESS LOCAL AREA NETWORK COMMUNICATIONS
Assignee: Intel Corporation Customer No: 21186

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Several of the documents, listed on the attached 1449, were discovered as a result of a Search Report in Applicants' corresponding foreign patent application. Enclosed for the Examiners' information are copies of the Search Report and the cited foreign patent documents and other publications.

Pursuant to 37 C.F.R. § 1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

INFORMATION DISCLOSURE STATEMENT

Serial No : 10/676,372

Filing Date: September 30, 2003

Title: SYSTEMS AND METHODS FOR HIGH-THROUGHPUT WIDEBAND WIRELESS LOCAL AREA NETWORK COMMUNICATIONS

Assignee: Intel Corporation

Page 2

Dkt: 884.A52US1 (INTEL)

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications are no longer required to be provided to the Office. Notification of this change was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004. Thus, Applicant has not included copies of any US Patents or Published Applications cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

ALEXANDER ALEXANDROVICH MALTSEV ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
P.O. Box 2938
Minneapolis, MN 55402
(612) 349-9592

Date May 11, 2005

By Ann M. McCrackin
Ann M. McCrackin
Reg. No. 42,858

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 11th day of May, 2005.

Name

JAMES KANYSIK

Signature

James Kanysik

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Alexander Alexandrovich Maltsev et al.

Title: SYSTEMS AND METHODS FOR HIGH-THROUGHPUT WIDEBAND WIRELESS LOCAL AREA NETWORK COMMUNICATIONS

Docket No.: 884.A52US1

Serial No.: 10/676,372

Filed: September 30, 2003

Due Date: N/A

Examiner: Unknown

Group Art Unit: 2681



MS Amendment

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

- A return postcard.
- An Information Disclosure Statement (2 pgs.), Form 1449 (1 pg.), and copies of 11 cited documents, including the International Search Report for corresponding PCT Application No. PCT/US2004/031863 (4 pgs.).

If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

Customer Number 21186

By: Ann M. McCracklin

Atty: Ann M. McCracklin

Reg. No. 42,858

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 11th day of May, 2005.

Name

JAMES KANYUK

Signature

James Kanyuk

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
(GENERAL)

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number	10/676,372
Filing Date	September 30, 2003
First Named Inventor	Maltsev, Alexander
Group Art Unit	2681
Examiner Name	Unknown

Sheet 1 of 1

Attorney Docket No: 884.A52US1

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T ²
	WO-01/99362A2	12/27/2001	Smart, K. J., et al.	
	WO-03/061204A1	07/24/2003	Choi, S.	
	WO-2005/004500A2	01/13/2005	Terry, J., et al.	
	WO-2005/034435A2	04/14/2005	Maltsev, A. A., et al.	

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		International Search Report for corresponding PCT Application No. PCT/US2004/031863 (Attorney Docket No. 884.A52W01) (April 12, 2005), 4 pgs.	
		"802.11g TM IEEE Local and Metropolitan Area Networks; Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications; Amendment 4:Further Higher Data Rate extension in the 2.4 GHz Band", IEEE STD 802.11G, The Institute of Electrical and Electronics Engineers, Inc. NY,(Jun. 27, 2003), 78 pgs.	
		"Supplement to IEEE Standard for IT-Telecomm. & Info. Exchange Between Systems - Local and Metropolitan Area Networks - specific requirements. Part 11:Wireless LAN Medium Access Control(MAC)and Physical Layer(PHY)Specs:High-speed Physical Layer in 5GHZ Band", IEEE Std 802.11a-1999, (Dec. 30, 1999), 90 pgs.	
		BANGERTER, B., et al., "High-Throughput Wireless LAN Air Interface", Intel Technology Journal: Wireless Technologies, 7(3). Available at http://developer.intel.com/technology/itj/index.htm , (Aug. 19, 2003), 47-57	
		KHUN-JUSH, J., et al., "Structure and performance of the HIPERLAN/2 physical layer", VTC 1999 - Fall. IEEE VTS 50th Vehicular Technology Conference, Volume 5, (September 19-27,), 2667-2671	
		MOTEGI, M., et al., "Optimum Modulation Assignment According to Subband Channel Status for BST-OFDM", IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, Institute of Electronic Sciences, Institute of Electronics Information and Communications Eng., Vol. E84-A (7), (Jul. 1, 2001), 1714-1722	
		ZHEN, L., et al., "A Modified Sub-Optimum Adaptive Bit and Power Allocation Algorithm in Wideband OFDM System", CCECE 2003 Canadian Conf. on Electrical and Computer Engineering. Vol. 3 of 3, 2003 IEEE,(May. 4, 2003), 1589-1592	

EXAMINER**DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 600. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached